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QUESTION 1

A company is using a Layer 2 Frame Relay network. Which circuit emulation will a network engineer use to extend the customer Frame Relay network over the Service Provider backbone?

A. GRE

B. L3VPN

C. AToM

D. VPLS

Correct Answer: C

QUESTION 2

The SP core supports PIM-SM for multicast traffic, but one of these routers is not able to see one of its PIM neighbors. What is the most likely cause of this issue?

A. The router is an RP with high priority.

B. IGMP snooping is not enabled.

C. PIM sparse mode is not enabled on a participating multicast interface.

D. PIM protocols are not enabled in global configuration mode.

E. Auto-RP is not enabled on this network.

Correct Answer: C

QUESTION 3

Select and Place:

Drag the command on the left to the correct step on the right to perform VPLS configuration on a Cisco IOS router.

neighbor ip-address send-community extended	Step 1
address-family l2vpn vpls	Step 2
neighbor ip-address activate	Step 3
l2 vfi vfi-name autodiscovery	Step 4
router bgp autonomous-system-number	Step 5
vpn id number	Step 6

Correct Answer:

Drag the command on the left to the correct step on the right to perform VPLS configuration on a Cisco IOS router.

	l2 vfi vfi-name autodiscovery
	vpn id number
	router bgp autonomous-system-number
	address-family l2vpn vpls
	neighbor ip-address activate
	neighbor ip-address send-community extended

QUESTION 4

Which statement about the requirements of eBGP multipath is true?

A. The path should be learned from an external or confederation-external neighbor.

B. The path should be learned from an internal neighbor.

C. The IGP metric to the BGP next hop should be equal to the best-path IGP metric, unless the router is configured for unequal-cost iBGP multipath.

D. The path should be learned from an IGP protocol.

Correct Answer: A

QUESTION 5

In MPLS VPN, where must MP-BGP peering be configured?

A. in all CE routers within a VPN community

B. in all CE routers across a VPN community

C. in all PE routers within a VPN community

D. in all PE routers across a VPN community

E. in all PE and CE routers within a VPN community

F. in all PE and CE routers across a VPN community

Correct Answer: C

QUESTION 6

In the context of MPLS, what is the correct action to be performed when an aggregate label is received?

A. It replaces the bottom label in the MPLS label stack with a VPN label and propagates

B. It replaces the top label in the MPLS label stack with a VPN label and propagates

C. It adds the VPN label into the top label in the MPLS label stack

D. It removes the top label in the MPLS label stack and does a Layer 3 lookup on underlying IP packets

Correct Answer: D

QUESTION 7

In which modes does selective packet discard (SPD) operate? (Choose three.)

A. discard

B. random

C. normal

D. full

E. select

Correct Answer: BCD

QUESTION 8

A network engineer wants customers to retain routing information and Layer 2 connectivity for non-Ethernet VPNs within their networks. Which two technologies can be used to accomplish this goal? (Choose two.)

A. VPLS

B. L2TPv3

C. L3VPN

D. AToM

E. IPsec

Correct Answer: BD

QUESTION 9

Which option propagates SRLG membership information to the network?

A. BGP attribute

B. IGP extension

C. RSVP extension

D. LDP extension

E. PIM extension

Correct Answer: B

QUESTION 10

Refer to the exhibit.

```
*Mar   1 00:02:24.279: PIM(0): Received v2 Bootstrap on FastEthernet0/0 from 10.10.24.2
*Mar   1 00:02:24.287: PIN-BSR(0): bootstrap on non-RPF path FastEthernet0/0
R4#show ip route 2.2.2.2
Routing entry for 2.2.2.2/32
      Known via "ospf 1", distance 110, metric 22, type intra area
      Last update from 10.10.34.3 on FastEthernet0/1, 00:01:58 ago
      Routing Descriptor Blocks:
      * 10.10.34.3, from 2.2.2.2, 00:01:58 ago via FastEthernet0/1
            Route metric is 22, traffic share count is 1


R4#show ip pim interface

Address         Interface           Ver/    Nbr     Query    DR      DR
                                    Mode    Count   Intvl    Prior
10.10.24.4      FastEthernet0/0  v2/S    1       30       1       10.10.24.4
10.10.34.4      FastEthernet0/1  v2/S    0       30       1       10.10.34.4
10.10.46.4      FastEthernet1/0  v2/S    1       30       1       10.10.46.4

R6#show ip mroute | begin 234
(*, 234.1.1.1), 00:17:54/00:02:56, RP 0.0.0.0, flags: SJCL
   Incoming interface: Null, RPF nbr 0.0.0.0
   Outgoing interface list:
         FastEthernet0/0, Forward/Sparse, 00:17:54/00:02:56

(*, 224.0.1.40), 00:17:54/00:02:59, RP 0.0.0.0, flags: DCL
   Incoming interface: Null, RPF nbr 0.0.0.0
   Outgoing interface list:
         FastEthernet0/0, Forward/Sparse, 00:17:54/00:02:59
```

A client is unable to receive traffic from multicast streamer (R5) on 234.1.1.1, even though multicast routing is established in the network. Which statement describes how to resolve this issue?

A. IGMP must be enabled for the client.

B. R4 must be the DR on the R4-R6 segment.

C. RP announcements have no multicast routing table entry.

D. The RP must be reachable via Fa0/0.

E. A static mroute must be configured to point to RP via Fa0/1 on R4.

Correct Answer: D

QUESTION 11

Which two features prevent routing loops between the OSPF sites of a customer when the sites are multihomed or a backdoor link is used between the sites? (Choose two.)

A. sham link

B. down bit

C. virtual link

D. Site of Origin

E. domain tag

Correct Answer: BE

If a route sent from a PE router to a CE router could then be received by another PE router from one of its own CE router, there are chances of routing loops. This situation is possible when a "backdoor link" connects two CE routers

connected to two different PE routers. To prevent this, the PE sets the DN bit in any LSA that it sends to the CE router. If the PE router receives any LSA with DN bit set, it ignores the LSA.

1) DN bit:

When a PE router sends a Type-3 LSA to a CE router, the DN bit in LSA Options field must be set. Now if the CE router sends the Type-3 LSA to other PE router (s), the PE router will not redistribute it further.

When a PE router needs to distribute a route to a CE router which comes from the outside of CE router\\'s OSPF domain, the PE router presents itself as an ASBR and distributes the route in Type- 5 LSA. The DN bit must be set in the LSA.

The Options field is present in all LSAs. The Options field is 1-byte long as follows- DN O DC EA N/P MC E MT

2) Route Tags (Domain Tags):

In some implementations (where DN bit is not set), Domain Tags (named by Cisco) are used to ensure Type-5 LSAs generated by a PE router will be ignored by other PE routers that may receive it. The value of Domain tag is configurable

and arbitrary if not set. Hence must be distinct from other OSPF tags

QUESTION 12

A customer wants the minimum delay for the transit traffic that traverses the service provider core. An engineer realizes that the customer sites are remotely dispersed and wants to give them a specific path through the MPLS core with guaranteed bandwidth and without relying on the shortest path of OSPF as the customer IGP. Which technology will achieve the required result?

A. L2VPN

B. IPsec tunnel

C. MPLS TE tunnel

D. L3VPN

E. mGRE with extensions

Correct Answer: C

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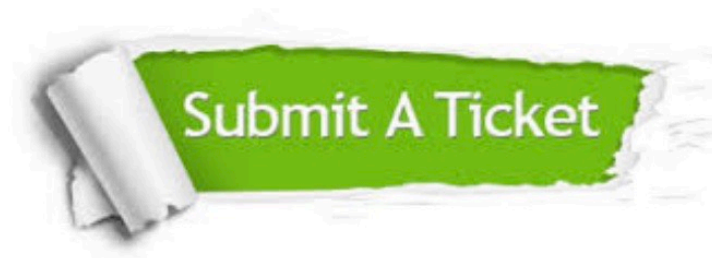
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